



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Ertugrul ARPAC et al.

Group Art Unit: 1762

Appln. No. : 10/589,985

Examiner: Unassigned

I. A. Filed : February 25, 2005

**Confirmation No.: 2454**

For : AMPHIPHILIC NANOPARTICLES

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
U.S. Patent and Trademark Office  
Customer Service Window, Mail Stop Amendment  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Sir:

Pursuant to 37 C.F.R. § 1.56 and 37 C.F.R. §§ 1.97-1.98, Applicants hereby direct the Examiner's attention to the following documents cited in the International Search Report for International Application PCT/EP2005/02023, of which the above-referenced application is a National Stage:

- (1) J. LIVAGE et al., "Sol-Gel Chemistry of Transition Metal Oxides", Prog. Solid. St. Chem., Vol. 18, 1988, pp. 259-341;
- (2) WO 01/30702 A1, May 3, 2001;
- (3) U.S. Patent Application Publication 2002/004544 A1 (KOLB et al.), published January 10, 2002; Applicants note that this document is a family member of document (2);
- (4) M. WONG et al., "Amphiphilic Templating of Mesostructured Zirconium Oxide", Chem. Mater., Vol. 10, 1998, pp. 2067-2077;
- (5) WO 93/21127 A1, October 28, 1993; Applicants note that this document is cited and discussed in the specification of the present application, beginning on page 2, line 14; and

(6) U.S. Patent No. 5,593,781 (NASS et al.), January 14, 1997; Applicants note that this document is as a family member of document (5).

Applicants further direct the attention of the Examiner to the following documents which are cited and discussed in the specification of the present application:

(7) WO 96/31572 A1, October 10, 1996; Applicants note that this document is cited and discussed in the specification of the present application, beginning on page 2, line 15;

(8) U.S. Patent No. 5,910,522 (SCHMIDT et al.), June 8, 1999; Applicants note that this document is a family member of document (7);

(9) EP 0 195 493 B1, September 24, 1986; Applicants note that this document is cited and discussed in the specification of the present application, beginning on page 12, line 17;

(10) U.S. Patent No. 4,895,767 (MORI et al.), January 23, 1990; Applicants note that this document is a family member of document (9);

(11) WO 92/21729 A1, December 10, 1992; Applicants note that this document is cited and discussed in the specification of the present application, beginning on page 12, line 20;

(12) U.S. Patent No. 5,644,014 (SCHMIDT et al.), July 1, 1997; Applicants note that this document is a family member of document (11);

(13) DE 43 38 361 A1, May 11, 1995; Applicants note that this document is cited and discussed in the specification of the present application, beginning on page 27, line 19;

(14) U.S. Patent No. 6,008,285 (KASEMANN et al.), December 28, 1999; Applicants note that this document is a family member of document (13); and

(15) U.S. Patent No. 6,228,921 B1 (KASEMANN et al.), May 8, 2001; Applicants note that this document is a family member of documents (13) and (14).

Applicants further direct the attention of the Examiner to the following commonly assigned U.S. Patents:

(16) U.S. Patent No. 6,620,514 B1 (ARPAC et al.), September 16, 2003; Applicants note that this document is the National Stage of PCT/EP99/02396, which published as WO 99/52964 A1 on October 21, 1999; and

(17) U.S. Patent No. 6,291,070 B1 (ARPAC et al.), September 18, 2001; Applicants note that this document is the National Stage of PCT/EP98/02842, which published as WO 98/51146 A1 on November 19, 1998.

Furthermore, Applicants direct the attention of the Examiner to the following commonly assigned and co-pending U.S. Patent Applications:

(18) U.S. Patent Application Publication No. 2005/0191505 A1 (AKARSU et al.), September 1, 2005; Applicants note that this document is a Continuation of PCT/EP03/07426, which published as WO 2004/005577 A2 on January 15, 2004; and

(19) U.S. Patent Application No. 10/589,986 (ARPAC et al.), filed on August 18, 2006 and entitled, "Abrasion-resistant and Alkali-resistant Coatings or Moulded Bodies Having a Low-energy Surface"; Applicants note that this document is the National Stage of PCT/EP05/01841, which published as WO 2005/0804665 on September 1, 2005.

Copies of the above-listed documents (with the exception of U.S. patents and U.S. patent applications), the Written Opinion (in English and German), and the International Search Report (in English and German) for International Application PCT/EP05/02023 are enclosed together with a completed copy of the Form PTO-1449 listing these documents. Accordingly, the

P30430.A02

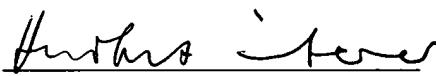
Examiner is requested to consider these documents and to indicate such consideration by returning a signed and initialed copy of the Form PTO-1449 with the next official communication.

Further to 37 C.F.R. §1.98 (a)(2)(ii) and to the U.S. Patent and Trademark Office's decision to waive the requirement under 37 C.F.R. §1.98 (a)(2)(iii) if a U.S. patent application was filed after June 30, 2003, copies of the U.S. patents and patent applications cited above are not enclosed herewith. However, if any copies are needed, the Examiner is respectfully requested to contact the undersigned.

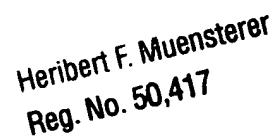
Applicants note that an Office Action on the merits has not yet issued in the instant application, and thus, no fee is necessary to ensure consideration of this statement. However, if an Office Action has issued and is crossing in the mail with this statement, the Patent and Trademark Office is hereby authorized to charge Deposit Account No. 19-0089 any fee necessary to ensure consideration of the submitted materials.

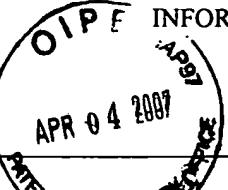
If there should be any questions, the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,  
Ertugrul ARPAC et al.

  
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FORM PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. P30430	Application No. 10/589,985		
 <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use several sheets if necessary)				Applicant Ertugrul ARPAC et al.			
				Filing Date February 25, 2005	Group 1762		
U.S. PATENT DOCUMENTS							
EXAMINER TRADE NAME INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	2002/ 0 0 4 5 4 4	01/10/02	KOLB et al.				
	5 5 9 3 7 8 1	01/14/97	NASS et al.				
	5 9 1 0 5 2 2	06/08/99	SCHMIDT et al.				
	4 8 9 5 7 6 7	01/23/90	MORI et al.				
	5 6 4 4 0 1 4	07/01/97	SCHMIDT et al.				
	6 0 0 8 2 8 5	12/28/99	KASEMANN et al.				
	6 2 2 8 9 2 1	05/08/01	KASEMANN et al.				
	6 6 2 0 5 1 4	09/16/03	ARPAC et al.				
	6 2 9 1 0 7 0	09/18/01	ARPAC et al.				
2005/	0 1 9 1 5 0 5	09/01/05	AKARSU et al.				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
01/	3 0 7 0 2	05/03/01	W.I.P.O				
93/	2 1 1 2 7	10/28/93	W.I.P.O				
96/	3 1 5 7 2	10/10/96	W.I.P.O				
	0 1 9 5 4 9 3	09/24/86	E.P.O				
92/	2 1 7 2 9	12/10/92	W.I.P.O				
	4 3 3 8 3 6 1	05/11/95	GERMANY				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
1	J. LIVAGE et al., "Sol-Gel Chemistry of Transition Metal Oxides", Prog. Solid. St. Chem., Vol. 18, 1988, pp. 259-341.						
2	M. WONG et al., "Amphiphilic Templating of Mesostructured Zirconium Oxide", Chem. Mater., Vol. 10, 1998, pp. 2067-2077.						
3	U.S. Patent Application No. 10/589,986 (ARPAC et al.), filed on August 18, 2006.						
EXAMINER				DATE CONSIDERED			
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							